

INDEX OF AUTHORS

VOLUME XXXV

TRANSACTIONS OF AMERICAN SOCIETY FOR METALS

1945

A

Ascik, A. L. 551
 Austin, Charles R. 446, 485
 Avery, Howard S. 1

B

Bernhart, C. B., Jr. 22
 Blickwede, D. J. 284
 Bowman, Fred E. 112

C

Carapella, Louis A. 435
 Clark, C. L. 298
 Cook, Earnshaw 1
 Coons, W. C. 284
 Cutton, J. G. 22

D

Davis, L. W. 156
 Dix, E. H., Jr. 130

F

Fenstermacher, W. H. 85
 Fetzer, M. C. 85, 485
 Franks, Russell 616
 Freeman, J. W. 298

G

Gow, James T. 390

H

Ham, John L. 331
 Harder, Oscar E. 390
 Hill, R. G. 46

L

Lindsay, R. W. 446
 Luini, Louis A. 446

M

McMullan, O. W. 584
 Millikin, J. R. 22

N

Nash, Jane 609

P

Parker, E. R. 362
 Post, C. B. 85
 Poynter, James W. 184

R

Rickett, R. L. 22
 Rigbey, James 536
 Rote, F. B. 402
 Rowland, E. S. 46
 Russ, J. J. 46

S

Sager, G. F. 195
 Selwood, P. W. 609
 Smoluchowski, R. 362
 Stroup, P. T. 195

T

Tate, Douglas R. 374

W

Welchner, J. 46
 West, J. B. 195
 Wilks, Charles R. 1
 Winkler, J. V. 225
 Wood, W. P. 402

INDEX OF SUBJECTS AND AUTHORS OF PAPERS

VOLUME XXXV

TRANSACTIONS OF AMERICAN SOCIETY FOR METALS

1945

A

Air Hardenability of Steels— <i>By C. B. Post, M. C. Fetzer and W. H. Fenstermacher</i>	85
Alloy Steels; Basic Electric Melting Procedure for High Quality— <i>By A. L. Ascik</i>	551
Aluminum Alloy Forging Materials and Design— <i>By L. W. Davis</i>	156
Aluminum Alloy Products; New Developments in High Strength— <i>By E. H. Dix, Jr.</i>	130
Aluminum Alloys Melted in an Induction Heated Crucible Furnace; Properties of— <i>By James W. Poynter</i>	184
Aluminum Bronze and Copper-Beryllium Alloys; New Metallographic Etchant for— <i>By W. C. Coons and D. J. Blickwede</i>	284
Annealing Studies on Cold-Rolled Iron and Iron Binary Alloys— <i>By Charles R. Austin, Louis A. Luini and R. W. Lindsay</i>	446

B

Basic Electric Melting Procedure for High Quality Alloy Steels— <i>By A. L. Ascik</i>	551
---	-----

C

Capillarity of Metallic Surfaces— <i>By E. R. Parker and R. Smoluchowski</i>	362
Carbon Content on Hardenability; Effect of— <i>By E. S. Rowland, J. Welchner, R. G. Hill and J. J. Russ</i>	46
Carbon Steels at Subcritical Temperatures; Factors Controlling Graphitization of— <i>By Charles R. Austin and M. C. Fetzer</i>	485
Chromium Steels of Low-Carbon Content— <i>By Russell Franks</i>	616
Cold-Rolled Iron and Iron Binary Alloys; Annealing Studies on— <i>By Charles R. Austin, Louis A. Luini and R. W. Lindsay</i>	446
Comparison of Microhardness Indentation Tests— <i>By Douglas R. Tate</i>	374
Copper-Beryllium and Aluminum Bronze Alloys; New Metallographic Etchant for— <i>By W. C. Coons and D. J. Blickwede</i>	284
Cracking Still Tubes; Mechanism of Failure of 18 Cr-8 Ni— <i>By C. L. Clark and J. W. Freeman</i>	298

D

Diffusion in Powdered Metals— <i>By P. W. Selwood and Jane Nash</i>	609
Diffusion Rate of Molybdenum in Austenite and in Ferrite— <i>By John L. Ham</i>	331
Double-Exposure Radiography; Improved Sensitivity in— <i>By James Rigbey</i>	536

E

Effect of Carbon Content on Hardenability— <i>By E. S. Rowland, J. Welchner, R. G. Hill and J. J. Russ</i>	46
--	----

Electric Melting Procedure for High Quality Alloy Steels; Basic— <i>By A. L. Ascik</i>	551
End-Quench Hardenability of Some NE Steels; Isothermal Transformation and— <i>By R. L. Rickett, J. G. Cutton, C. B. Bernhart, Jr. and J. R. Millikin</i>	22
End Quench Hardenability Test; Further Developments of the— <i>By Charles R. Wilks, Earnshaw Cook and Howard S. Avery</i>	1

F

Factors Controlling Graphitization of Carbon Steels at Subcritical Temperatures— <i>By Charles R. Austin and M. C. Fetzer</i>	485
Failure of 18 Cr-8 Ni Cracking Still Tubes; Mechanism of— <i>By C. L. Clark and J. W. Freeman</i>	298
Forging Materials and Design; Aluminum Alloy— <i>By L. W. Davis</i>	156
Further Developments of the End Quench Hardenability Test— <i>By Charles R. Wilks, Earnshaw Cook and Howard S. Avery</i>	1

G

Graphitization of Carbon Steels at Subcritical Temperatures; Factors Controlling— <i>By Charles R. Austin and M. C. Fetzer</i>	485
Gray Cast Iron; Segregation of Molybdenum in Phosphorus-Bearing Alloyed— <i>By F. B. Rote and W. P. Wood</i>	402

H

Hardenability (Air) of Steels— <i>By C. B. Post, M. C. Fetzer and W. H. Fenstermacher</i>	85
Hardenability; Effect of Carbon Content on— <i>By E. S. Rowland, J. Welchner, R. G. Hill and J. J. Russ</i>	46
Hardenability; Partition of Molybdenum in Steel and Its Relation to— <i>By Fred E. Bowman</i>	112
Hardenability and Tensile Strength of Normalized Steels; Relationship Between— <i>By Louis A. Carapella</i>	435
Hardenability Test for Low Carbon and Shallow Hardening Steels— <i>By O. W. McMullan</i>	584
Hardenability Test; Further Development of the End Quench— <i>By Charles R. Wilks, Earnshaw Cook and Howard S. Avery</i>	1
Hardening Steels; Hardenability Test for Low Carbon and Shallow— <i>By O. W. McMullan</i>	584
High Quality Alloy Steels; Basic Electric Melting Procedure for— <i>By A. L. Ascik</i>	551
High Strength Aluminum Alloy Products; New Developments in— <i>By E. H. Dix, Jr.</i>	130

I

Improved Sensitivity in Double-Exposure Radiography— <i>By James Rigby</i>	536
Indentation Tests; Comparison of Microhardness— <i>By Douglas R. Tait</i>	374
Induction Heated Crucible Furnace; Properties of Aluminum Alloys Melted in an— <i>By James W. Poynter</i>	184
Iron Binary Alloys; Annealing Studies on Cold-Rolled Iron and— <i>By Charles R. Austin, Louis A. Luini and R. W. Lindsay</i>	446
Isothermal Transformation and End-Quench Hardenability of Some NE Steels— <i>By R. L. Rickett, J. G. Cutton, C. B. Bernhart, Jr. and J. R. Millikin</i>	22

L

Low Carbon and Shallow Hardening Steels; Hardenability Test for— By <i>O. W. McMullan</i>	584
Low-Carbon Content; Chromium Steels of— <i>By Russell Franks</i>	616

M

Magnesium Alloy Fabrication; Survey of Wrought— <i>By J. V. Winkler</i>	225
Magnesium Sheet— <i>By P. T. Stroup, G. F. Sager and J. B. West</i>	195
Mechanism of Failure of 18 Cr-8 Ni Cracking Still Tubes— <i>By C. L. Clark and J. W. Freeman</i>	298
Metallic Surfaces; Capillarity of— <i>By E. R. Parker and R. Smoluchowski</i>	362
Metallographic Etchant for Aluminum Bronze and Copper-Beryllium Alloys— <i>By W. C. Coons and D. J. Blickwede</i>	284
Metal Peening; Shot for— <i>By Oscar E. Harder and James T. Gow</i>	390
Microhardness Indentation Tests; Comparison of— <i>By Douglas R. Tate</i> ..	374
Molybdenum in Austenite and in Ferrite; Rate of Diffusion of— <i>By John L. Ham</i>	331
Molybdenum Segregation in Phosphorus-Bearing Alloyed Gray Cast Iron— <i>By F. B. Rote and W. P. Wood</i>	402
Molybdenum in Steel and Its Relation to Hardenability; Partition of— <i>By Fred E. Bowman</i>	112

N

NE Steels; Isothermal Transformation and End-Quench Hardenability of Some— <i>By R. L. Rickett, J. G. Cutton, C. B. Bernhart, Jr. and J. R. Millikin</i>	22
New Developments in High Strength Aluminum Alloy Products— <i>By E. H. Dix, Jr.</i>	130
New Metallographic Etchant for Aluminum Bronze and Copper-Beryllium Alloys— <i>By W. C. Coons and D. J. Blickwede</i>	284
Normalized Steels; Relationship Between Hardenability and Tensile Strength of— <i>By Louis A. Carapella</i>	435

P

Partition of Molybdenum in Steel and Its Relation to Hardenability— <i>By Fred E. Bowman</i>	112
Peening; Shot for Metal— <i>By Oscar E. Harder and James T. Gow</i>	390
Phosphorus-Bearing Alloyed Gray Cast Iron; Segregation of Molybdenum in— <i>By F. B. Rote and W. P. Wood</i>	402
Powdered Metals; Diffusion in— <i>By P. W. Selwood and Jane Nash</i>	609
Properties of Aluminum Alloys Melted in an Induction Heated Crucible Furnace— <i>By James W. Poynter</i>	184

R

Radiography; Improved Sensitivity in Double-Exposure— <i>By James Rigby</i>	536
Rate of Diffusion of Molybdenum in Austenite and in Ferrite— <i>By John L. Ham</i>	331
Relationship Between Hardenability and Tensile Strength of Normalized Steels— <i>By Louis A. Carapella</i>	435

S

Segregation of Molybdenum in Phosphorus-Bearing Alloyed Gray Cast Iron— <i>By F. B. Rote and W. P. Wood</i>	402
Shallow Hardening Steels; Hardenability Test for Low Carbon and— <i>By O. W. McMullan</i>	584

Sheet; Magnesium— <i>By P. T. Stroup, G. F. Sager and J. B. West</i>	195
Shot for Metal Peening— <i>By Oscar E. Harder and James T. Gow</i>	390
Survey of Wrought Magnesium Alloy Fabrication— <i>By J. V. Winkler</i> ...	225

T

Tensile Strength of Normalized Steels; Relationship Between Hardenability and— <i>By Louis A. Carapella</i>	435
Tubes; Mechanism of Failure of 18 Cr-8 Ni Cracking Still— <i>By C. L. Clark and J. W. Freeman</i>	298

W

Wrought Magnesium Alloy Fabrication; Survey of— <i>By J. V. Winkler</i> ..	225
--	-----

